

CLAIMS

What is claimed is:

1. A method for implementing a write-once read-many functionality for storage of data on a rotating disk drive data storage device containing at least one rotatably mounted disk for recording data on at least one surface of said at least one rotatably mounted disk and a movable actuator supporting at least one transducer head, said actuator positioning said at least one transducer head to access data on said at least one surface of said at least one rotatably mounted disk, comprising the steps of:
 - a. determining that data has been written to a portion of said rotating disk drive data storage device; and
 - b. responsive to said determination, blowing one or more fuses electrically coupling a write signal to said transducer head, wherein said write signal is required at said transducer head to enable said transducer head to write data to said portion, and wherein blowing said one or more fuses prevents said write signal from being received at said transducer head, thereby preventing said rotating magnetic disk drive data storage device from overwriting said data written to said portion.
2. The method of claim 1, wherein said portion is an entire recording surface of said at least one rotatably mounted disk.
3. The method of claim 1, wherein said portion is a sector of a recording surface of said at least one rotatably mounted disk.
4. The method of claim 1, wherein said one or more fuses electrically couple circuitry for generating said write signal to said transducer head.

5. The method of claim 1, wherein said one or more fuzes electrically enable circuitry for generating said write signal associated with a specified logical address, wherein said portion is associated with said specified logical address such that said write signal associated with said specified logical address is required at said transducer head to enable said transducer head to write data to said portion.
6. The method of claim 1, further wherein said blowing step is performed by said rotating disk drive storage device responsive to an external command received by said rotating disk drive storage device.

7. A rotating disk drive data storage device, comprising:
 - a. a disk drive base;
 - b. at least one rotatably mounted disk for recording data on at least one surface of said at least one rotatably mounted disk;
 - c. a movable actuator supporting at least one transducer head, said actuator positioning said at least one transducer head to access data on said at least one surface of said at least one rotatably mounted disk; and
 - d. circuitry for controlling the operation of said disk drive data storage device, said circuitry producing at least one write signal that instructs said at least one transducer head to write data to at least one portion of at least one surface of at least one rotatably mounted disk of said at least one rotatably mounted disk, said circuitry further including one or more fuzes electrically coupling said at least one transducer head to said at least one write signal, wherein blowing said one or more fuzes prevents said at least one write signal from being received at said transducer head, thereby preventing said rotating magnetic disk drive data storage device from overwriting said data written to said at least one portion.
8. The rotating disk drive data storage device of claim 7, wherein said at least one portion is an entire recording surface of said at least one rotatably mounted disk.
9. The rotating disk drive data storage device of claim 7, wherein said at least one portion is a sector of a recording surface of said at least one rotatably mounted disk.
10. The rotating disk drive data storage device of claim 7, wherein said one or more fuzes electrically couple circuitry for generating said at least one write signal to said transducer head.

11. The rotating disk drive data storage device of claim 7, wherein said one or more fuzes electrically enable circuitry for generating at least one write signal associated with a specified logical address, wherein said at least one portion is associated with said specified logical address such that said at least one write signal associated with said specified logical address is required at said at least one transducer head to enable said at least one transducer head to write data to said at least one portion.

12. The rotating disk drive data storage device of claim 7, wherein said circuitry produces said at least one write signal responsive to an external command received by said rotating disk drive storage device.

13. The rotating disk drive data storage device of claim 7, wherein said rotating disk drive data storage device is one of a plurality of rotating disk drive data storage devices.

14. The rotating disk drive data storage device of claim 7, wherein said rotating disk drive data storage device is a magnetic rotating disk drive data storage device.

15. An article of manufacture comprising signal-bearing storage media including program logic embedded therein that causes control circuitry of a rotating disk drive data storage device to perform the steps of:

a. determining that data has been written to a portion of at least one rotatably mounted disk of said rotating disk drive data storage device, wherein said at least one rotatably mounted disk is capable of recording data on at least one surface of said at least one rotatably mounted disk and wherein said rotating disk drive data storage device includes at least one transducer head to access data on said at least one surface of said at least one rotatably mounted disk; and

b. responsive to said determination, blowing one or more fuzes electrically coupling a write signal to said transducer head, wherein said write signal is required at said transducer head to enable said transducer head to write data to said portion, and wherein blowing said one or more fuzes prevents said write signal from being received at said transducer head, thereby preventing said rotating magnetic disk drive data storage device from overwriting said data written to said portion.

16. The article of manufacture of claim 15, wherein said portion is an entire recording surface of said at least one rotatably mounted disk.

17. The article of manufacture of claim 15, wherein said portion is a sector of a recording surface of said at least one rotatably mounted disk.

18. The article of manufacture of claim 15, wherein said one or more fuzes electrically couple circuitry for generating said write signal to said transducer head.

19. The article of manufacture of claim 15, wherein said one or more fuzes electrically enable circuitry for generating said write signal associated with a specified

logical address, wherein said portion is associated with said specified logical address such that said write signal associated with said specified logical address is required at said transducer head to enable said transducer head to write data to said portion.

20. The article of manufacture of claim 15, further wherein said blowing step is performed by said rotating disk drive storage device responsive to an external command received by said rotating disk drive storage device.